Product guide

Network video solutions

AXIS COMMUNICATIONS

Welcome to the Axis network video product guide

This guide has been developed to help you navigate our broad range of network video products. If you are looking for comprehensive product specifications, or information about our solutions and customer cases, please visit our website www.axis.com or contact your local Axis office.

The driving force in network video

Axis is the world leader in network video. We were first to bring the benefits of IP to video surveillance and remote monitoring, introducing the world's first network camera in 1996. With nearly three decades of network know-how, full commitment to open industry standards, and partnership with over 35,000 experts, Axis delivers solutions that best answer users' current and future needs – including a complete range of high-quality network cameras, video encoders, video management software and accessories.

Axis solutions ensure easy integration and scalability, and use standard networks and IT equipment. As a founding member of the international standards body ONVIF, Axis also promotes equipment interoperability and compatibility.

Enduring results

With the world's largest installed base of network cameras, Axis offers unrivalled expertise. Used worldwide in sectors ranging from retail and transportation to education and city surveillance, Axis network video solutions deliver enduring results: indoor, outdoor, wired, wireless, and in even the most extreme conditions and remote locations.

Pioneering partnerships

Axis partners with a comprehensive network of surveillance specialists. Together with leading technology partners, application developers, consultants/design institutes, system integrators and resellers, we create video surveillance solutions that expand the user's potential.

Get the Axis picture. Stay one step ahead.

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NETWORK CAMERAS

Watch anything, from anywhere at any time

The video surveillance market is thriving, driven by increased public and private security awareness. At the same time, the market is rapidly undergoing a technology shift where analog CCTV systems are being replaced by network video – a technology that started at Axis. Axis invented the first network camera in 1996, and continues to lead the market. With network cameras for day and night, indoor and outdoor environments, and features such as wireless, vandal protection and megapixel/HDTV resolutions, Axis offers you a complete portfolio. Whether you need a professional video surveillance solution to secure the safety of people and places, or remotely monitor property and facilities, Axis can meet your needs.

Common features

- Axis superior image quality
- Live and recorded video in HDTV and megapixel resolutions
- Direct connection to wired and wireless IP networks
- Easy to install, outdoor-ready video solutions for harsh weather conditions
- Standard video compression formats including H.264, MPEG-4 and Motion JPEG
- Built-in intelligence, e.g. video motion detection and tampering alarm
- Powerful event and alarm management, including alarm input/output through external devices
- Enhanced video surveillance with audio
- Power over Ethernet for reduced installation costs and reliable power supply
- Comprehensive set of security and technology features such as multi-level passwords, IP address filtering, HTTPS encryption, IPv6 and Quality of Service (QoS)
- Powerful management tools for remote configuration and status
- Powerful API (VAPIX®) for software integration, AXIS Video Hosting System for Internet-based video surveillance management, AXIS Camera Application Platform for third application software and ONVIF

Benefits

- Remote access to live and recorded video anywhere at any time, from any authorized computer
- Digital quality images for perfect viewing
- Clearer images of moving persons and objects thanks to progressive scan
- Different viewing and storing needs satisfied by multiple, individually configurable streams
- Scalable and future-proof, based on open IP standards
- Ease of integration with other systems, such as access control and point of sales
- Efficient centralized management and reduced maintenance costs
- Flexible and cost-efficient large-scale video surveillance solutions
- Reduced staff work-load through intelligent, automated and reliable event management
- Backed by the industry's largest base of video management software with Axis Application Development Partners

Types of network cameras

Network cameras for any need

Axis offers the world's largest selection of network cameras, providing high-quality video solutions for any professional indoor or outdoor video surveillance application.

Fixed network cameras

A fixed network camera meets a variety of application needs, and its traditional camera design adds a deterring effect. The viewing direction is set once the camera is mounted. There are several models with a varifocal lens and/or exchangeable lenses for increased flexibility.

Fixed dome network cameras

A fixed dome network camera is a compact camera solution with a dome casing. Its main benefit lies in its discreet, non-obtrusive design, as well as in the fact that it is difficult to see in which direction the camera is pointing.

PTZ network cameras

A PTZ network camera offers network video functionality combined with pan/tilt/zoom capability. The camera's movement is easily controlled via a computer connected to the network. Depending on the application, the most suitable choice may be a PTZ network camera where both movement and viewing direction are visible, a more discreet model where all moving parts are inside the casing, or a model with no moving parts.

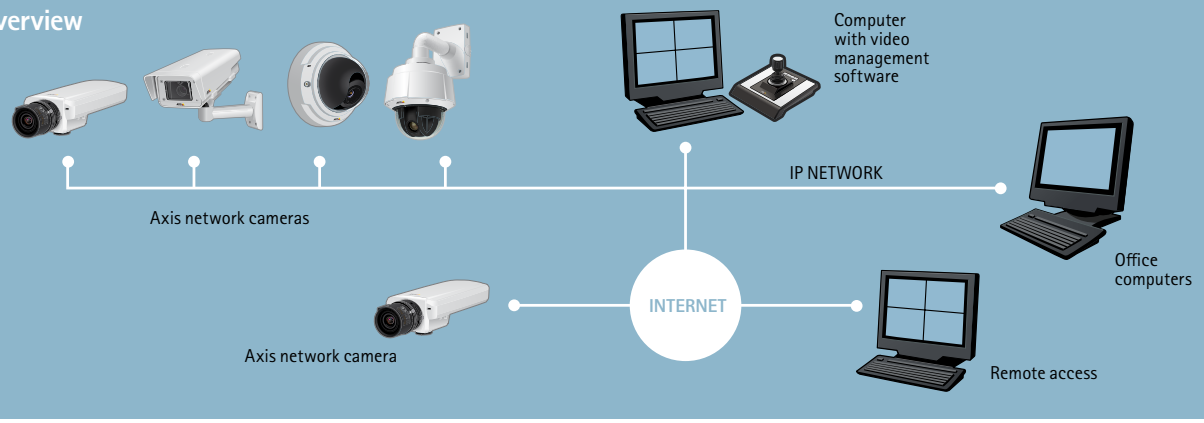
PTZ dome network cameras

A PTZ dome network camera provides full flexibility by enabling 360° endless pan, up to 220° tilt, extensive zooming capabilities and advanced mechanical design for continuous camera movement. PTZ domes are ideal for live monitoring, where the user actively follows a person or object, as well as unmanned surveillance through the use of guard tour, whereby the camera automatically moves between preset positions.

Thermal network cameras

Thermal network cameras create images based on heat that radiates from any object, vehicle or person. The cameras see through complete darkness and deliver images that allow operators to detect and act on suspicious activity around the clock in all conditions. Thermal network cameras are a perfect complement to any professional IP-surveillance system.

System overview



FIXED NETWORK CAMERAS

AXIS 211W

Flexible wireless video surveillance with superior image quality.

> Progressive scan
> Varifocal lens with DC-iris
> Replaceable CS mount lens
> Simultaneous Motion JPEG and MPEG-4 streams
> Up to 30 frames per second in all resolutions ranging up to VGA 640x480
> Two-way audio support including built-in microphone and audio detection alarm
> One alarm input and one output for connecting external devices
> Active tampering alarm
> Power over Ethernet (IEEE 802.3af)
> Wireless IEEE 802.11b/g

AXIS 221

High performance network camera for demanding security installations under all lighting conditions.

> Progressive scan
> High-quality varifocal DC-iris lens for optimal image quality in outdoor light conditions
> Replaceable CS mount lens
> Automatic day and night with removable IR filter
> Simultaneous Motion JPEG and MPEG-4 streams
> Up to 45 frames per second in all resolutions ranging up to 640x480. Up to 60 frames per second in 480x360 or lower
> Two alarm inputs and one output for connecting external devices
> Active tampering alarm
> Power over Ethernet (IEEE 802.3af)

AXIS M1011/ AXIS M1011-W

The smallest network cameras with H.264.

> Functional and smart design
> Progressive scan
> Simultaneous, multiple H.264, Motion JPEG and MPEG-4 streams
> Active tampering alarm
> **AXIS M1011-W:** Wireless and wired connection to the network for flexible installation
> AXIS Video Hosting System (AVHS)
> ONVIF

AXIS M1031-W

The smallest and smartest wireless network camera with H.264.

> Functional and smart design
> Progressive scan
> Simultaneous, multiple H.264, Motion JPEG and MPEG-4 streams
> Two-way audio support including built-in microphone and speaker, and audio detection alarm
> Active tampering alarm
> PIR sensor for detecting movement even in the dark
> White LED for illuminating the scene automatically at an event or when requested by the user
> Wireless IEEE 802.11b/g
> AXIS Video Hosting System (AVHS)
> ONVIF

Axis new generation network cameras all include H.264, which is the latest MPEG standard for video encoding. H.264 reduces the size of a digital video file by more than 80% compared with the Motion JPEG format, allowing for more cost-effective and manageable video surveillance systems.

AXIS M1043-W/ AXIS M1044-W

The smallest and smartest wireless network cameras from the market leader.

- Functional and smart design
- Progressive scan
- Simultaneous, multiple H.264 and Motion JPEG streams
- **AXIS M1043-W:** Up to 30 frames per second in all resolutions up to SVGA 800x600
- **AXIS M1044-W:** Up to 30 frames per second in all resolutions up to HDTV 720p and 1 MP
- Two-way audio support including built-in microphone and speaker, and audio detection alarm
- One alarm input and one output
- Active tampering alarm
- PIR sensor for detecting movement even in the dark
- White LED for illuminating the scene automatically at an event or when requested by the user
- Wireless IEEE 802.11b/g/n
- MicroSD/SDHC memory card slot
- AXIS Video Hosting System (AVHS)
- ONVIF

AXIS M1054

The smallest and smartest HDTV network camera.

- Functional and smart design
- Progressive scan
- Simultaneous, multiple H.264 and Motion JPEG streams
- Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Two-way audio support including built-in microphone and speaker, and audio detection alarm
- One alarm input and one output
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- PIR sensor for detecting movement even in the dark
- White LED for illuminating the scene automatically at an event or when requested by the user
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF

AXIS M1103/M1104

Compact and affordable high-resolution cameras for professional surveillance.

- Compact design
- Progressive scan
- Replaceable CS mount lens
- Simultaneous, multiple H.264 and Motion JPEG streams
- **AXIS M1103:** Up to 30 frames per second in all resolutions up to SVGA 800x600
- **AXIS M1104:** Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ support
- Pixel counter
- Support for AXIS Video Hosting System (AVHS)

AXIS M1113/ AXIS M1113-E

Compact and affordable high-resolution cameras for professional surveillance

- Compact design
- Progressive scan
- Varifocal lens with DC-iris
- Replaceable CS mount lens
- Simultaneous, multiple H.264 and Motion JPEG streams
- Up to 30 frames per second in all resolutions up to SVGA 800x600
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ support
- Pixel counter
- AXIS Video Hosting System (AVHS)
- **AXIS M1113-E**: Outdoor-ready, IP66 rated, for temperatures down to -20 °C/ -4 °F

FIXED NETWORK CAMERAS

AXIS M1114/ AXIS M1114-E

Compact and affordable network HDTV cameras for professional surveillance

- Compact design
- Progressive scan
- Varifocal lens with DC-iris
- Replaceable CS mount lens
- Simultaneous, multiple H.264 and Motion JPEG streams
- Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ support
- Pixel counter
- AXIS Video Hosting System (AVHS)
- **AXIS M1114-E**: Outdoor-ready, IP66 rated, for temperatures down to -20 °C/ -4 °F

AXIS P1343/ AXIS P1343-E

Superb image quality for video surveillance in any environment.

- Progressive scan
- Replaceable CS mount lens offering remote back-focus adjustment
- Focus assistant
- Automatic day and night with removable IR filter
- Simultaneous, multiple H.264 and Motion JPEG streams
- Up to 30 frames per second in all resolutions up to SVGA 800x600 pixels
- Two-way audio support and audio detection alarm
- 1 alarm input and 1 output
- Active tampering alarm
- PoE (IEEE 802.3af)
- Digital PTZ support
- Pixel counter
- SD/SDHC memory card slot
- AXIS Video Hosting System
- AXIS Camera Application Platform
- ONVIF
- **AXIS P1343:** Built-in microphone
- **AXIS P1343-E:** Outdoor-ready, IP66- and NEMA 4X-rated for temperatures down to - 30 °C / - 22 °F or - 40 °C/F with High PoE; IK10 impact-resistant

AXIS P1344/ AXIS P1344-E

Superb HDTV quality for video surveillance in any environment.

- Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- All other features same as AXIS P1343/AXIS P1343-E

AXIS P1346/ AXIS P1346-E

Superb HDTV quality and multi-view streaming in any environment.

- P-Iris control for optimal image sharpness
- Up to 20 frames per second in all resolutions in 3 MP mode; up to 30 frames per second in 2 MP 4:3 (1600x1200) and HDTV 1080p (1920x1080) mode
- Multi-view streaming
- All other features same as AXIS P1344/AXIS P1344-E

HDTV/Megapixel

AXIS P1347/ AXIS P1347-E

Exceptional surveillance with 5-megapixel camera.

> Up to 12 frames per second in all resolutions in 5 MP mode
> Up to 20 frames per second in all resolutions in 3 MP mode and up to 30 frames per second in 2 MP 4:3 (1600x1200) and HDTV 1080p (1920x1080) mode
> All other features same as AXIS P1346/AXIS P1346-E

AXIS Q1602/ AXIS Q1602-E

Outstanding image performance in poor light conditions.

> Progressive scan
> Life-like colors even in low-light conditions, down to 0.05 lux
> Simultaneous, multiple, H.264 and Motion JPEG streams
> Up to 30 frames per second in all resolutions up to extended D1 (768x576) resolution
> WDR - dynamic contrast
> Two-way audio support
> Active tampering alarm
> Power over Ethernet (IEEE 802.3af)
> SD/SDHC memory card slot
> Pixel counter
> AXIS Camera Application Platform
> AXIS Video Hosting System (AVHS)
> ONVIF
> **AXIS Q1602-E:** Outdoor-ready, IP66- and NEMA 4X-rated, for temperatures down to - 30 °C / - 22 °F or - 40 °C/F with High Power over Ethernet

HDTV

AXIS Q1755/ AXIS Q1755-E

HDTV network camera with zoom and H.264.

> Progressive scan
> 10x optical and 12x digital zoom with autofocus
> Simultaneous, multiple H.264 and Motion JPEG streams
> 30/25 (60/50 Hz) frames per second in HDTV 1080i or 720p resolution and 16:9 format
> Two-way audio support and audio detection alarm
> Active tampering alarm
> Gatekeeper feature zooms in automatically when there is activity in a monitored area
> Power over Ethernet (IEEE 802.3af)
> Built-in SD/SDHC memory card slot for optional local storage
> **AXIS Q1755:** Built-in microphone
> **AXIS Q1755-E:** Outdoor-ready, IP66- and NEMA 4X-rated, Power over Ethernet and High PoE, Arctic Temperature Control for temperatures down to -40 °C/F

Axis outdoor-ready cameras have an IP66 rating and are ready for the outdoors at delivery. No external housing is required. For a full list of Axis outdoor-ready cameras see: www.axis.com/outdoor

FIXED DOME NETWORK CAMERAS

AXIS M3113-R/ AXIS M3114-R

Compact, rugged network cameras for mobile video surveillance.

- Flat rugged design that blends in discreetly while withstanding tough conditions in buses and trains
- Quick, reliable installation
- Easy lens adjustment/replacement with supplied lens tool
- Progressive scan
- Simultaneous H.264 and Motion JPEG streams
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ
- Pixel counter
- WDR - dynamic contrast
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- IP66, IP67, NEMA 4X ratings
- **AXIS M3113-R:** Up to 30 fps in all resolutions up to SVGA
- **AXIS M3114-R:** Up to 30 fps in all resolutions, including HDTV 720p and 1 MP, IK08 impact-resistant

AXIS M3113-VE/ AXIS M3114-VE

Affordable and ultra-discreet outdoor fixed domes.

- Outdoor-ready, discreet and vandal resistant
- Quick and reliable installation
- Easy lens adjustment and replacement with the supplied lens tool
- Progressive scan
- Simultaneous H.264 and Motion JPEG streams
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ
- Pixel counter
- WDR - dynamic contrast
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- IP66, IP67, NEMA 4X ratings
- **AXIS M3113-VE:** Up to 30 fps in all resolutions up to SVGA
- **AXIS M3114-VE:** Up to 30 fps in all resolutions, including HDTV 720p and 1 MP, IK08 impact-resistant

AXIS M3011

Ultra-discreet, recessed-mount video surveillance solution.

- Ultra-discreet fixed dome design for quick and easy recessed mounting in a drop ceiling
- Progressive scan
- Simultaneous multiple H.264, MPEG-4 and Motion JPEG streams
- Up to 30 frames per second in all resolutions ranging up to VGA 640x480 pixels
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- ONVIF

AXIS M3014

Ultra-discreet, recessed-mount video surveillance solution.

- Ultra-discreet fixed dome design for quick and easy recessed mounting in a drop ceiling
- Progressive scan
- Simultaneous multiple H.264 and Motion JPEG streams
- Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- ONVIF

AXIS M3203/ AXIS M3203-V

Discreet and affordable fixed domes for professional surveillance.

- Progressive scan
- Varifocal lens and wide camera angle adjustment
- Multiple, individually configurable streams in H.264 and Motion JPEG
- Up to 30 frames per second in all resolutions
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ
- Pixel counter
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- **AXIS M3203:** Tamper-resistant
- **AXIS M3203-V:** Vandal-resistant

AXIS M3204/ AXIS M3204-V

Discreet and affordable HDTV fixed domes for professional surveillance.

- Progressive scan
- Varifocal lens and wide camera angle adjustment
- Multiple, individually configurable streams in H.264 and Motion JPEG
- Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ
- Pixel counter
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- **AXIS M3204:** Tamper-resistant
- **AXIS M3204-V:** Vandal-resistant

AXIS P3301/ AXIS P3301-V

Discreet video surveillance with outstanding H.264 performance.

- Progressive scan
- Varifocal lens with DC-iris
- Multiple, simultaneous, individually configurable streams in H.264 and Motion JPEG
- Up to 30 frames per second in all resolutions ranging up to VGA 640x480 pixels
- Two-way audio support including built-in microphone and audio detection alarm
- 1 alarm input and 1 output
- Active tampering alarm
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- Power over Ethernet (IEEE 802.3af)
- Pixel counter
- **AXIS P3301-V:** Vandal-resistant

AXIS P3304/ AXIS P3304-V

Discreet video surveillance with outstanding HDTV and H.264 performance.

- Progressive scan
- Varifocal lens and wide camera angle adjustment
- Multiple, individually configurable streams in H.264 and Motion JPEG
- Up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Active tampering alarm
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- Power over Ethernet (IEEE 802.3af)
- Digital PTZ
- Pixel counter
- **AXIS P3304-V:** Vandal-resistant

FIXED DOME NETWORK CAMERAS

AXIS P3343/ AXIS P3343-V/-VE

Fixed domes with remote focus and zoom.

- Progressive scan
- Varifocal lens with DC-iris
- Remote focus and zoom
- Automatic day and night with removable IR filter
- Multiple, simultaneous, individually configurable streams in H.264 and Motion JPEG at up to 30 frames per second in all resolutions
- Resolutions ranging up to 800x600 pixels
- Two-way audio support and audio detection alarm
- Built-in microphone
- 1 alarm input and 1 output
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- WDR - dynamic contrast
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- **AXIS P3343-V:** Vandal-resistant
- **AXIS P3343-VE:** Vandal-resistant, outdoor-proof IP66- and NEMA 4X-rated casing

AXIS P3344/ AXIS P3344-V/-VE

HDTV fixed domes with remote focus and zoom.

- Progressive scan
- Varifocal lens with DC-iris
- Remote focus and zoom
- Automatic day and night with removable IR filter
- Multiple, simultaneous, individually configurable streams in H.264 and Motion JPEG at up to 30 frames per second in all resolutions, including HDTV 720p and 1 MP
- Two-way audio support and audio detection alarm
- Built-in microphone
- 1 alarm input and 1 output
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- WDR - dynamic contrast
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- **AXIS P3344-V:** Vandal-resistant
- **AXIS P3344-VE:** Vandal-resistant, outdoor-proof IP66- and NEMA 4X-rated casing

AXIS P3346/ AXIS P3346-V/-VE

HDTV 1080p fixed domes with remote focus and zoom.

- Progressive scan
- Varifocal lens with P-iris control
- Remote focus and zoom
- Automatic day and night with removable IR filter
- Multi-view streaming
- Multiple, simultaneous, individually configurable streams in H.264 and Motion JPEG
- Up to 20 frames per second in all resolutions in 3 MP mode; up to 30 frames per second in 2 MP 4:3 (1600x1200) and HDTV 1080p (1920x1080) mode
- Two-way audio support and audio detection alarm
- Built-in microphone
- 1 alarm input and 1 output
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- WDR - dynamic contrast
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- **AXIS P3346-V:** Vandal-resistant, IK10 impact-resistant
- **AXIS P3346-VE:** Vandal-resistant, outdoor-proof IP66- and NEMA 4X-rated casing, IK10 impact-resistant

AXIS P3367/ AXIS P3367-V/-VE

HDTV 1080p fixed domes with remote focus and zoom.

- Progressive scan
- Varifocal lens with P-iris control for optimal image sharpness
- Remote focus and zoom
- Automatic day and night with removable IR filter
- Multi-view streaming
- Multiple, simultaneous, individually configurable streams in H.264 and Motion JPEG
- Up to 12 frames per second in all resolutions in 5 MP mode and capable of all AXIS P3346 capture modes
- Two-way audio support and audio detection alarm
- Built-in microphone
- 1 alarm input and 1 output
- Active tampering alarm
- Power over Ethernet (IEEE 802.3af)
- WDR - dynamic contrast
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- **AXIS P3367-V:** Vandal-resistant, IK10 impact-resistant
- **AXIS P3367-VE:** Vandal-resistant, outdoor-proof IP66- and NEMA 4X-rated casing, IK10 impact-resistant

PTZ NETWORK CAMERAS

AXIS 212 PTZ/ AXIS 212 PTZ-V

Compact PTZ camera offering full overview and instant zoom with retained image resolution – yet with no moving parts.

- Progressive scan
- Simultaneous MPEG-4 and Motion JPEG streams
- 30 frames per second in VGA 640x480 resolution at maximum zoom
- 140° horizontal angle at view
- Pan and tilt speed 400°/s
- PTZ with no moving parts – no wear and tear
- Power over Ethernet (IEEE 802.3af)
- Two-way audio support including built-in microphone and audio detection alarm
- One alarm input and one output
- **AXIS 212 PTZ-V:** Vandal-resistant casing in metal

AXIS 214 PTZ

Professional day and night camera with remote pan/tilt/zoom and audio.

- 18x optical zoom lens with autofocus
- Automatic day and night with removable IR filter
- Simultaneous MPEG-4 and Motion JPEG streams
- Up to 30/25 (60/50 Hz) frames per second in resolutions up to 4CIF
- Two-way audio, including audio detection alarm
- One alarm input and one output

PTZ DOME NETWORK CAMERAS

AXIS 233D

High-speed dome camera with progressive scan and 35x zoom.

- Progressive scan
- 35x optical zoom with autofocus and 12x digital zoom
- Automatic day and night with removable IR-filter
- Simultaneous MPEG-4 and Motion JPEG streams
- Up to 30/25 (60/50 Hz) frames per second in all resolutions
- 360° endless pan
- Pan/tilt speed 0.05° - 450°/s
- Area zoom for quick and simple pan/tilt/zoom
- Two-way audio, including audio detection alarm
- 4 alarm inputs and 4 outputs
- Auto-tracking
- E-flip that electronically turns the image 180° when following an object under the dome
- Electronic image stabilizer
- WDR - dynamic contrast

AXIS M5013/ AXIS M5014

Mini PTZ dome that gives the big picture.

- Progressive scan
- Pan/tilt/zoom in an ultra-discreet design for indoor monitoring
- 3x digital zoom
- Simultaneous multiple H.264 and Motion JPEG streams
- **AXIS M5013:** Up to 30 frames per second in all resolutions up to SVGA 800x600
- **AXIS M5014:** Up to 30 frames per second in all resolutions, including HDTV 720p
- Built in microphone and audio detection
- AXIS Camera Application Platform
- ONVIF
- IP51-rated protection against dust and dripping water
- Power over Ethernet (IEEE 802.3af)
- MicroSDHC memory card slot

PTZ DOME NETWORK CAMERAS

AXIS P5512/ AXIS P5512-E

Compact, affordable day/night PTZ domes with 12x zoom.

- 12x optical zoom with autofocus and 4x digital zoom
- Automatic day and night with removable IR filter
- Simultaneous multiple H.264 and Motion JPEG streams
- Up to 30/25 (60/50 Hz) frames per second in all resolutions up to 704x480/576
- 360° pan with Auto-flip
- E-flip
- Power over Ethernet (IEEE 802.3af)
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System
- ONVIF
- **AXIS P5512:** Two-way audio, including audio detection alarm*, four configurable alarm inputs or outputs;* IP51-rated
- **AXIS P5512-E:** Outdoor-ready, IP66- and NEMA 4X-rated, operates in temperatures down to -20 °C (-4 °F)

AXIS P5522/ AXIS P5522-E

Affordable day/night PTZ domes with 18x zoom for broad application.

- Progressive scan
- 18x optical zoom with autofocus and 12x digital zoom
- Automatic day and night with removable IR filter
- Simultaneous multiple H.264 and Motion JPEG streams
- Up to 30/25 (60/50 Hz) frames per second in all resolutions, including D1 720x480/576
- 360° pan with Auto-flip
- Advanced Gatekeeper
- Power over Ethernet Plus (IEEE 802.3at)
- E-flip
- WDR - dynamic contrast
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System
- ONVIF
- **AXIS P5522:** Two-way audio,including audio detection alarm*, four configurable alarm inputs or outputs;* IP51-rated
- **AXIS P5522-E:** Outdoor-ready, IP66- and NEMA 4X-rated, operates in temperatures down to -20 °C (-4 °F)

AXIS P5532/ AXIS P5532-E

Cost-effective PTZ cameras with 29x zoom.

- Progressive scan
- 29x optical zoom and 12x digital zoom with autofocus
- Automatic day and night with removable IR filter
- Simultaneous multiple H.264 and Motion JPEG streams
- Up to 30/25 (60/50 Hz) frames per second in all resolutions, including D1 720x480/576
- 360° pan with Auto-flip
- Advanced Gatekeeper
- Power over Ethernet Plus (IEEE 802.3at)
- E-flip
- Electronic image stabilizer
- WDR - dynamic contrast
- SD/SDHC memory card slot
- AXIS Camera Application Platform
- AXIS Video Hosting System
- **AXIS P5532:** Two-way audio, including audio detection alarm*, four configurable alarm inputs or outputs;* IP51-rated
- **AXIS P5532-E:** Outdoor-ready, IP66- and NEMA 4X-rated, operates in temperatures down to -20 °C (-4 °F); ONVIF

AXIS P5534/ AXIS P5534-E

HDTV pan/tilt/zoom cameras with 18x zoom.

- Progressive scan
- 18x optical zoom with autofocus and 12x digital zoom
- Up to 30/25 (60/50 Hz) frames per second in all resolutions, up to HDTV 720p (1280x720)
- AXIS Video Hosting System (AVHS)
- ONVIF
- **AXIS P5534:** Two-way audio, including audio detection alarm*, four configurable alarm inputs or outputs;* IP51-rated protection against dust and dripping water
- **AXIS P5534-E:** Outdoor-ready, IP66- and NEMA 4X-rated, operates in temperatures down to -20 °C (-4 °F)
- All other features same as AXIS P5532/P5532-E

*Using a multi-connector cable

AXIS Q6032/ AXIS Q6032-E

Advanced, outdoor-ready PTZ dome for demanding surveillance.

- Progressive scan
- 35x optical zoom with autofocus and 12x digital zoom
- Automatic day and night with removable IR filter
- Simultaneous H.264 and Motion JPEG streams
- Up to 30/25 (60/50 Hz) frames per second in all resolutions
- 360° endless pan
- Pan/tilt speed 0.05° – 450°/s
- Auto-tracking and E-flip
- Guard Tour
- SD/SDHC memory card slot
- Electronic image stabilizer
- Wide Dynamic Range
- **AXIS Q6032:** Extended D1 resolution (752x480/736x576), IP52-rated, 2-way audio, audio detection alarm*, 4 configurable alarm inputs/outputs;* Active Gatekeeper; AXIS Camera Application Platform, AXIS Video Hosting System, ONVIF, PoE Plus (IEEE 802.3at)
- **AXIS Q6032-E:** Outdoor-ready, IP66- and NEMA 4X-rated; Arctic Temperature Control for temperatures down to -40°C/F, High Power over Ethernet

HDTV

AXIS Q6034/ AXIS Q6034-E

HDTV surveillance with high-speed, 18x-zoom dome.

- 18x optical zoom with autofocus and 12x digital zoom
- Up to 30/25 (60/50 Hz) frames per second in all resolutions, including HDTV 720p 1280x720
- AXIS Video Hosting System (AVHS)
- ONVIF
- **AXIS Q6034:** Advanced Gatekeeper enabling automatic PTZ
- **AXIS Q6034-E:** AXIS Camera Application Platform, Active Gatekeeper enabling automatic PTZ and object tracking
- All other features same as AXIS Q6032/-E

HDTV/Megapixel

AXIS Q6035/ AXIS Q6035-E

HDTV 1080p PTZ domes with 20x zoom for ultimate video quality.

- 20x optical zoom with autofocus and 12x digital zoom
- Up to 30/25 (60/50 Hz) frames per second in all resolutions, including in HDTV 1080p and up to 60/50 (60/50 Hz) in HDTV 720p
- Tour recording
- Active Gatekeeper
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF
- All other features same as AXIS Q6034/-E

Axis outdoor-ready cameras have an IP66 rating and are ready for the outdoors at delivery. No external housing is required. For a full list of outdoor-ready cameras see: www.axis.com/outdoor

*Using a multi-connector cable

THERMAL NETWORK CAMERAS

AXIS Q1910/ AXIS Q1910-E

Reliable detection in dark and challenging indoor conditions.

- Uncooled Micro bolometer sensor and 13 mm/F1.25 lens
- Thermal imaging sensitivity NetD <100 mK
- Multiple, individually configurable H.264 and MPEG-4 video streams with palette setting
- Up to 8.3 frames per second in all resolutions up to 160x128 pixels
- Two-way audio including built-in microphone and audio detection alarm
- 2 configurable alarm inputs or outputs
- Active tampering alarm
- AXIS Camera Application Platform
- ONVIF
- Power over Ethernet (IEEE 802.3af)
- SD/SDHC memory card slot
- **AXIS Q1910-E:** Outdoor-ready with IP66-rated casing and window heater

AXIS Q1921/ AXIS Q1921-E

High quality detection and wide range coverage.

- Uncooled Micro bolometer sensor
- Thermal imaging sensitivity NetD <100 mK
- Exchangeable lenses (10, 19 mm)
- Multiple, individually configurable H.264 and MPEG-4 video streams with palette setting
- Up to 8.3/30* frames per second in all resolutions up to 384x288 pixels
- Power over Ethernet (IEEE 802.3af)
- Two-way audio including built-in microphone and audio detection alarm
- 2 configurable alarm inputs or outputs
- Active tampering alarm
- AXIS Camera Application Platform
- ONVIF
- SD/SDHC memory card slot
- **AXIS Q1921-E:** Outdoor-ready with IP66-rated casing and window heater; exchangeable lenses (10, 19, 35, and 60 mm)

*Up to 30 fps within EU, Norway, Switzerland, Canada, USA, Japan, Australia, New Zealand. Up to 8.3 fps in other countries. Frame rate above 9 fps may be subject to export control regulations.

VIDEO ENCODERS/DECODERS

Helping you migrate your analog security system to an IP-based video solution

Axis video encoders digitize the video signals from your analog CCTV system and distribute them directly over an IP-based network, turning analog cameras into network cameras. Users can view live images from a video management software application or a web browser anywhere, at any time. Connect an Axis video decoder to your system to display live video on digital or analog public view monitors.

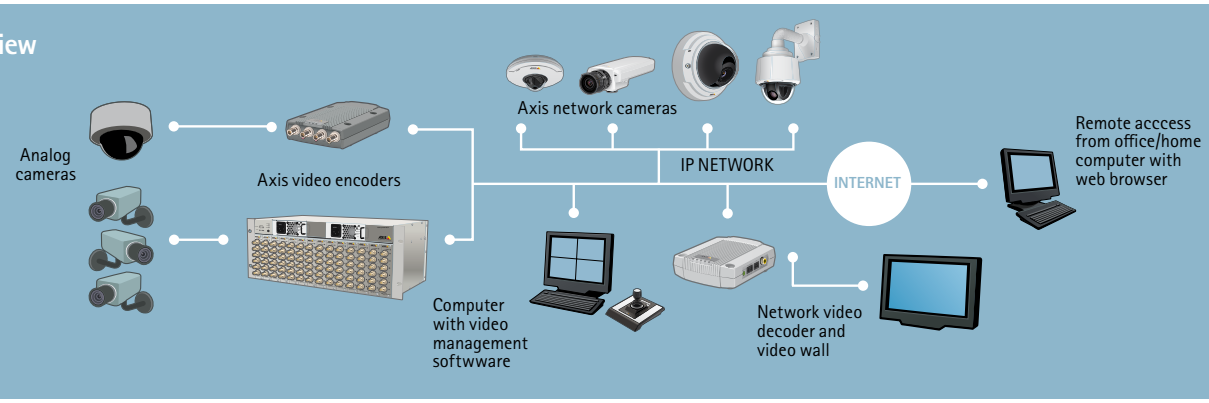
Common features

- Analog video sources converted to high-quality digital video
- Deinterlace filter corrects motion blur caused by the analog video signal
- Support for ONVIF
- Standard video compression formats including H.264, MPEG-4 and Motion JPEG
- Direct connection to IP networks
- Independent system with embedded web server - no need for additional hardware or software to capture and transfer images
- Powerful event and alarm management capabilities, including alarm input/output through external devices
- Remote configuration and status with Axis management tools or standard web browser
- Comprehensive set of security and technology features such as multi-level passwords, IP address filtering, HTTPS encryption,
- Powerful API (VAPIX®) for software integration
- IPv6 and Quality of Service (QoS)

Benefits

- Remote access to live and recorded video anywhere at any time, from any authorized computer
- Digital quality images for perfect viewing
- Scalable and future-proof
- Lower total cost of ownership by leveraging existing network infrastructure and legacy equipment
- Convenient digital video storage
- Increased functionalities compared with CCTV system
- Remote and secure accessibility for efficient, centralized management and reduced maintenance costs
- Ease of integration: easy addition of functionality, system expansion and integration with other systems, such as access control or point of sales
- Backed by the industry's largest base of video management software with Axis Application Development Partners

System overview



1-CHANNEL VIDEO ENCODERS

AXIS 241S

One-channel, standalone video encoder providing digital benefits to analog video surveillance systems.

> Simultaneous Motion JPEG and MPEG-4 streams
> Up to 30/25 (NTSC/PAL) frames per second up to 4CIF resolution
> Resolutions up to 704x480 (NTSC) and 704x576 (PAL)
> Support for third-party PTZ and dome cameras using uploadable PTZ drivers
> 4 alarm inputs and 4 outputs
> Built-in video motion detection
> Active tampering alarm
> 9 MB pre/post alarm memory per channel
> Available as a blade version
> AXIS Video Hosting System (AVHS)*

AXIS M7001

The smallest, one-channel video encoder with H.264 providing an easy and cost-effective solution for small and large analog video installations.

> Simultaneous H.264 and Motion JPEG streams
> Full 30/25 (NTSC/PAL) frames per second in all resolutions
> Resolutions up to D1 (720x480 in NTSC, 720x576 in PAL)
> Image setting adjustment
> Support for third-party PTZ and PTZ dome cameras using uploadable PTZ drivers
> Built-in video motion detection
> 20 MB pre/post alarm memory per channel
> Power over Ethernet (IEEE 802.3af) with power out to the small covert camera included in the AXIS M7001 Covert Surveillance Kit
> AXIS Video Hosting System (AVHS)*
> ONVIF

AXIS 243SA

One-channel, standalone video encoder with audio support providing full-featured digital benefits to analog video surveillance systems.

> Simultaneous Motion JPEG and MPEG-4 streams
> Full 30/25 (NTSC/PAL) frames per second in all resolutions
> Resolutions up to 704x480 (NTSC) and 704x576 (PAL)
> Support for third-party PTZ and dome cameras using uploadable PTZ drivers
> Integrated two-way audio support
> 4 alarm inputs and 4 outputs
> Built-in video motion detection
> Audio detection
> Active tampering alarm
> 9 MB pre/post alarm memory per channel
> AXIS Video Hosting System (AVHS)*

AXIS 247S

A compact, one-channel video encoder solution, ideal for installation close to the analog camera.

> Simultaneous MPEG-4 and Motion JPEG streams
> Full 30/25 (NTSC/PAL) frames per second at 4CIF resolution
> Integrated one-way audio support
> 1 alarm input and 1 output
> Built-in video motion detection
> Audio detection
> 9 MB pre/post alarm memory per channel
> Power over Ethernet (IEEE 802.3af) with power out for camera

*Special firmware needed. Available for partners on the Axis Partner Pages.

1-CHANNEL

AXIS Q7401

One-channel, standalone video encoder for full-featured video surveillance with outstanding H.264 performance.

- Multiple, simultaneous, individually configurable streams in H.264 and Motion JPEG at full 30/25 (NTSC/PAL) frames per second in all resolutions
- Resolutions up to D1 (720x480 in NTSC, 720x576 in PAL)
- Image setting adjustment
- Support for third-party PTZ and PTZ dome cameras using uploadable PTZ drivers
- Integrated 2-way audio support
- 4 configurable inputs/outputs
- Built-in video motion detection
- Audio detection
- Active tampering alarm
- 64 MB pre/post alarm memory
- SD/SDHC memory card slot
- Power over Ethernet (IEEE 802.3af) with power out for camera
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)*
- ONVIF

4-CHANNEL

AXIS 241Q/AXIS 241QA

Four-channel, standalone video encoders providing digital benefits to analog video surveillance systems.

- Simultaneous Motion JPEG and MPEG-4 streams per channel
- Up to 30/25 (NTSC/PAL) frames per second per channel
- Resolutions up to 704x480 (NTSC) and 704x576 (PAL)
- Support for third-party PTZ and dome cameras, using uploadable PTZ drivers
- 4 alarm inputs and 4 outputs
- Built-in video motion detection
- Active tampering alarm
- 9 MB pre/post alarm memory per channel
- **AXIS 241Q:** Available as a blade version
- **AXIS 241QA:** Integrated two-way audio support

AXIS 243Q Blade

Four-channel video encoder blade providing full frame rate in full 4CIF resolution.

- Simultaneous Motion JPEG and MPEG-4 streams per channel
- Full 30/25 (NTSC/PAL) frames per second per channel in all resolutions
- Resolutions up to 704x480 (NTSC) and 704x576 (PAL)
- Support for third-party PTZ and dome cameras, using uploadable PTZ drivers
- 4 alarm inputs and 4 outputs
- Built-in video motion detection
- Active tampering alarm
- 9 MB pre-/post-alarm buffer per channel

AXIS M7014

Four-channel cost-effective video encoder with H.264.

- One H.264 and one Motion JPEG stream per channel at 15 fps per channel in all resolutions up to D1 (720x480 NTSC or 720x576 PAL)
- High resolution quad view
- Image setting adjustment
- Built-in video motion detection
- Active tampering alarm
- Support for one third-party PTZ driver
- MicroSDHC memory card slot
- Power over Ethernet (IEEE 802.3af)
- ONVIF

*Special firmware needed. Available for partners on the Axis Partner Pages.

4-CHANNEL

AXIS P7214/ AXIS P7224 Blade

Full-featured, cost-effective four-channel video encoder with H.264.

- One H.264 and one Motion JPEG stream per channel at full frame rate in all resolutions up to D1 (720x480 NTSC or 720x576 PAL)
- High resolution quad view
- Image setting adjustment
- Built-in video motion detection
- Audio detection
- Active tampering alarm
- Two-way audio, full duplex
- Support for one third-party PTZ driver
- **AXIS P7214:** 4-channels; one microSDHC memory card slot, Power over Ethernet (IEEE 802.3af)
- **AXIS P7224:** 4-channels (blade version)
- ONVIF

AXIS Q7404

Four-channel video encoder for full-featured video surveillance with outstanding H.264 performance.

- Multiple, simultaneous, individually configurable streams per channel in H.264 and Motion JPEG at full 30/25 (NTSC/PAL) frames per second in all resolutions
- Resolutions up to D1 (720x480 in NTSC, 720x576 in PAL)
- Image setting adjustment
- Support for third-party PTZ and dome cameras, using uploadable PTZ drivers
- 2 configurable inputs/outputs per channel
- Built-in video motion detection
- Active tampering alarm
- Audio detection
- Two-way audio support on one channel
- 64 MB pre/post alarm memory per channel

AXIS Q7414 Blade

Four channel video encoder blade for high-density video surveillance with H.264 and full audio support.

- Multiple, simultaneous, individually configurable streams per channel in H.264 and Motion JPEG at full 30/25 (NTSC/PAL) frames per second in all resolutions
- Resolutions up to D1 (720x480 in NTSC, 720x576 in PAL)
- Image setting adjustment
- Support for third-party PTZ driver
- 2 configurable inputs/outputs per channel
- Video motion detection
- Audio detection
- Active tampering alarm
- Two-way audio support
- Pre and post alarm memory video buffering
- AXIS Camera Application Platform
- AXIS Video Hosting System (AVHS)
- ONVIF

6-CHANNEL

AXIS Q7406 Blade

Six-channel video encoder blade for full-featured video surveillance with outstanding H.264 performance.

- Multiple, simultaneous, individually configurable streams per channel in H.264 and Motion JPEG at full 30/25 (NTSC/PAL) frames per second in all resolutions
- Resolutions up to D1 (720x480 in NTSC, 720x576 in PAL)
- Image setting adjustment
- Support for third-party PTZ and dome cameras, using uploadable PTZ drivers
- 2 configurable inputs/outputs per channel
- Built-in video motion detection
- Active tampering alarm
- 64 MB pre/post alarm memory per channel
- AXIS Camera Application Platform
- ONVIF

16-CHANNEL

AXIS M7010

16-channel cost-effective video encoder with H.264.

- One H.264 and one Motion JPEG stream per channel at 15 fps per channel in all resolutions up to D1 (720x480 NTSC or 720x576 PAL)
- High resolution quad view
- Image setting adjustment
- Built-in video motion detection
- Active tampering alarm
- Support for 4 third-party PTZ drivers (one in each group)
- 4 microSDHC memory card slots
- Power over Ethernet (IEEE 802.3af)
- ONVIF

AXIS P7210

Full-featured, cost-effective 16-channel video encoder with H.264.

- One H.264 and one Motion JPEG stream per channel at full frame rate in all resolutions up to D1 (720x480 NTSC or 720x576 PAL)
- High resolution quad view
- Image setting adjustment
- Built-in video motion detection
- Audio detection
- Active tampering alarm
- Two-way audio, full duplex
- Support for 4 third-party PTZ drivers (one in each group
- 4 microSDHC memory card slots
- Power over Ethernet (IEEE 802.3af)
- ONVIF

VIDEO DECODERS

AXIS P7701

Full-featured video decoder with outstanding H.264 performance.

- Allows digital or analog monitors to be connected to an Axis IP-based video system
- For use with all Axis H.264, MPEG-4 and Motion JPEG products
- Full frame rate in H.264 and MPEG-4 in resolutions up to D1 (720x480 in NSTC, 720x576 in PAL)
- Motion JPEG video stream decoded in all resolutions up to 720p (1280x720)
- One way audio decoding
- Support for legacy equipment
- Automatic display of alarm-triggered video
- Power over Ethernet (IEEE 802.3af)

RACKS FOR ENTERPRISE INSTALLATIONS

Designed for improved serviceability and quick replacement of units, AXIS 291 1U Video Server Rack, AXIS Video Server Rack and AXIS Q7900 Rack hold up to 3, 12 or 14 video encoder blades respectively. They are interchangeable and hot-swappable so there is no need to power down when installing or changing blades. The racks come with integrated power supply for easy installation and expansion. Axis video encoder racks combine high reliability and functionality with flexible and professional installation, and provide higher density of video channels compared with standalone solutions. Axis video encoder racks are specially designed for applications involving a large number of cameras, both existing and new. They are also designed for applications that cover large physical surveillance areas such as prisons, airports, large buildings, university campuses, subways and railway stations.

AXIS 291 1U Video Server Rack

AXIS 291 1U Video Server Rack is a high-density solution for quick and professional installation of up to 3 video encoders in the same rack. It is designed to migrate from 1 to 18 analog cameras into high performance, IP-based, digital solutions.

- 1-unit high rack solution
- 3 slots for Axis video encoder blades; "hot swap" support
- Serial communication and I/O connectors at the rear of each slot, and a single network connection together with integrated power for simple installation
- Any combination of AXIS 241Q/S, AXIS 243Q, AXIS P7224, AXIS Q7406 and AXIS Q7414

AXIS Video Server Rack

AXIS Video Server Rack enables large surveillance installations to quickly install as many as 12 video encoder blades in the same rack. It is designed to migrate from 1 to 48 analog cameras into high performance, IP-based, digital solutions.

- 3-unit high rack solution
- 12 slots for Axis video encoder blades; "hot swap" support
- Network, serial communication and I/O connectors at the rear of each slot, and common power supply
- Any combination of AXIS 241Q/S

AXIS Q7900 Rack

AXIS Q7900 Rack enables large surveillance installations to quickly install as many as 14 video encoder blades in the same rack. It is designed to migrate from 1 to 84 analog cameras into high performance, IP-based, digital solutions.

- 4-unit high rack solution
- 14 slots for Axis video encoder blades; "hot swap" support
- Two integrated, replaceable, redundant power supplies
- Replaceable fan cassettes
- Four Gigabit Ethernet ports – optionally use only 1 port or all 4 ports
- Serial communication and I/O connectors at the rear of each slot, and common power supply
- Any combination of AXIS 241Q/S, AXIS 243Q, AXIS P7224, AXIS Q7406 and AXIS Q7414

VIDEO MANAGEMENT

Remote viewing, recording and event management

Axis provides video management software and hardware that complements the company's network cameras and video encoders. Additionally, Axis Application Development Partners (ADP) offer a wide range of complete video solutions.

APPLICATION DEVELOPMENT PARTNERS

Specialized solutions for any system size

Axis Application Development Partners (ADP), which comprise more than 800+ companies, offer a wide range of complete software solutions that meet varying specifications and requirements for different application areas—from entry-level software to comprehensive applications covering most industry segments. More information about Axis Application Development Partners is available at www.axis.com/partner/adp_program/

AXIS VIDEO HOSTING SYSTEM

AXIS Video Hosting System (AVHS) enables a hosted monitoring and recording service to be managed and distributed to you by a service provider. With an Internet connection and an Axis camera as the only requirements, you can enjoy a trouble-free monitoring solution over the Internet. For more information visit www.axis.com/hosting/

VIDEO MANAGEMENT SOFTWARE

AXIS Camera Station

AXIS Camera Station is a complete monitoring and recording system for up to 100 cameras. Designed for Axis network video products, this software offers easy installation and setup with automatic camera discovery, multi-configuration of devices and a powerful Event Configuration Wizard.

- > Viewing and recording of high quality video and audio from up to 100 cameras
- > Support for H.264, MPEG-4 and Motion JPEG video compression
- > Scheduled and event-driven recording
- > Powerful recording search and export functionality
- > Locking of prioritized recordings
- > Synchronized playback from up to 25 video sources simultaneously
- > Easy installation
- > Intuitive handling
- > Site maps

- > Control of PTZ and dome cameras using mouse or joystick
- > Remote viewing and control
- > Multilingual support for English, French, German, Italian, Spanish, Russian, Korean, Japanese, Chinese, Swedish, Danish, Polish, Turkish, Arabic and Persian.

AXIS Camera Station One

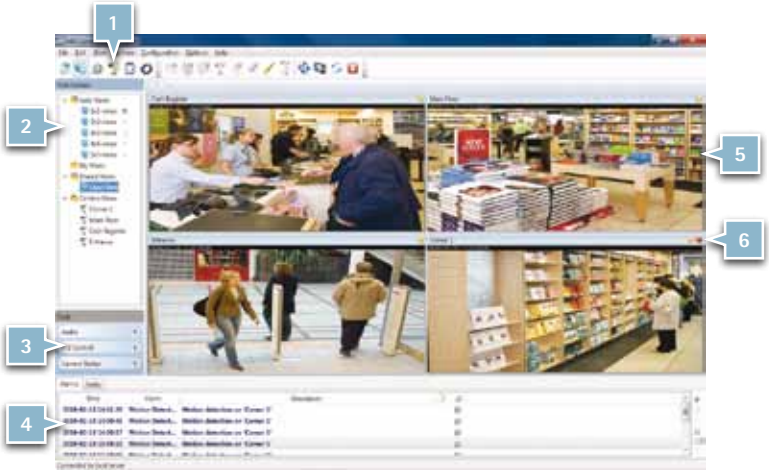
AXIS Camera Station One is a free one-camera version of AXIS Camera Station, designed for single camera viewing and recording. The software is available from the Axis website and is upgradable to a 4-or 10-base license of AXIS Camera Station.

FREE OF CHARGE!

User interface

AXIS Camera Station runs as a Windows service on a dedicated PC. Viewing and control are possible using the AXIS Camera Station's Windows client running on the local computer or connect from anywhere on the Internet or corporate network.

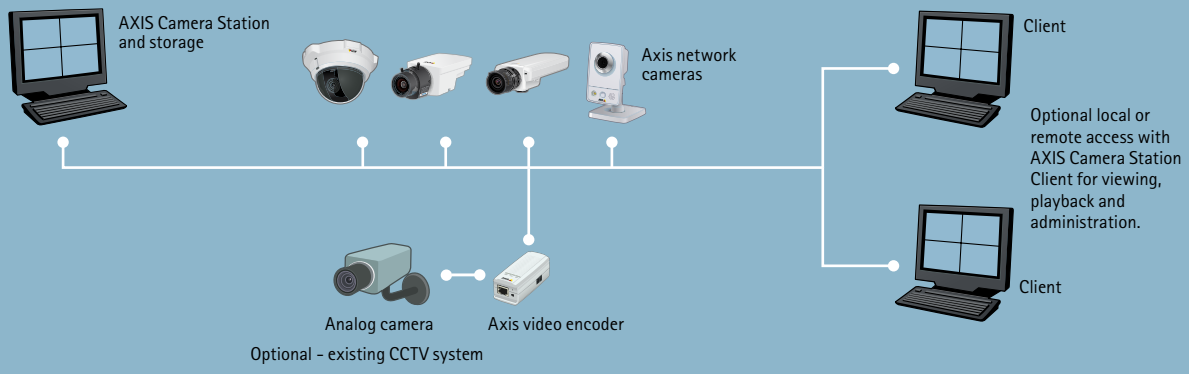
1) Easy navigation using different workspaces
2) Select customized split view
3) Quick access to Audio and PTZ Control
4) Alarm log
5) Live view
6) Red marker indicates alarm recording



Scenario 1: Basic installation with remote access on the local network

AXIS Camera Station and Axis network cameras are located on the same local network. Viewing, playback and administration are done directly in AXIS Camera Station. Existing analog cameras connected to an Axis video encoder achieve the same functionality.

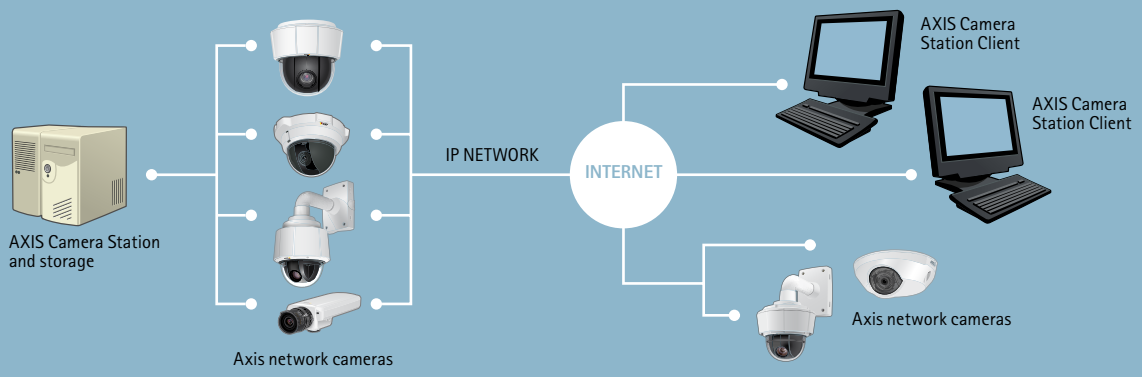
Typical environments for this type of installation are small offices or retail shops.


AXIS Camera Station and storage
Axis network cameras
Client
Optional local or remote access with AXIS Camera Station Client for viewing, playback and administration.
Client
Analog camera
Axis video encoder
Optional - existing CCTV system

Scenario 2: Installation with local networks spread over a geographical area, including both local and remote cameras.

One common surveillance system is used at different locations spread over a geographical area. The system can be remotely accessed from anywhere on the Internet by a supervisor or a contracted security company using the AXIS Camera Station Client.

Typical environments for this type of installation are schools or retail stores.



INSTALLATION AND MANAGEMENT TOOLS

AXIS T8412 Installation display

Handheld device for fast and easy camera setup.
AXIS T8412 Installation Display is a battery-powered handheld device that displays live video from a camera and makes setting a camera's viewing angle and focus at the installation site easier than with the use of a laptop or remote computer.

- > Touchscreen monitor (320x240 color LCD)
- > Zoom function
- > Snapshot function
- > Storage of snapshots on SD card or USB memory
- > Supports Axis network video products and analog cameras
- > Provides Power over Ethernet to Axis network cameras

AXIS Mobile Monitor

AXIS Mobile Monitor enables quick and easy access to live video from Axis network video products, directly on smartphones or Pocket PCs. The software makes mobile surveillance convenient on handheld devices running Windows Mobile. It also provides pan/tilt/zoom operation and manual control of I/O ports.

With automatic discovery of Axis network cameras, AXIS Mobile Monitor facilitates the installation and configuration process. In addition, it can help the installer adjust focus when needed.

- > Live video on handheld devices
- > Easy installation
- > Flexible configuration
- > PTZ and I/O control
- > Intuitive user interface
- > Easy-to-read focus indicator

AXIS Camera Management

AXIS Camera Management is a powerful and efficient installation and management tool for Axis network video products. The tool uses standard Internet protocols and runs on a standard Windows PC.

- > Locates and shows status of Axis video devices on the network
- > Assigns IP addresses, manually or automatically from a specified range
- > Configures single or multiple units
- > Manages user access rights
- > Firmware upgrades of multiple units, in sequence or in parallel

HARDWARE ACCESSORIES

A full range of accessories for enhanced operability and optimized image quality.

Axis provides a wide range of complementary video and network accessories and devices for your network cameras and video encoders. Accessories from Axis ensure straightforward installation and superior performance. See all available accessories at www.axis.com/accessories.

AXIS T92A Housing Series

Protective housing for Axis network cameras.

- Side opening system for fast and easy installation
- IP66-rated protection
- Indoor and outdoor installations
- Sunshield for thermal insulation
- Operating conditions down to 20 °C (-4 °F) and up to +50 °C (122 °F)
- Die-cast aluminum
- Compatible with: AXIS 211W, AXIS 221, AXIS P13 Series, AXIS Q1755

AXIS T92E Housing Series

Protective housing for Axis fixed network cameras.

- Side opening system for fast and easy installation
- Dual shell
- IP66-, NEMA 4X- and IK10-rated protection
- Arctic Temperature Control
- Indoor and outdoor installations
- Sunshield for thermal insulation
- Operating conditions -30 °C to +50°C (-22°F to 122°F) with PoE and down to -40 °C (-40 °F) with High PoE
- Aluminum casing
- Compatible with: AXIS P13 Series, AXIS Q1755

AXIS T93E05 Protective Housing

Unobtrusive housing with compact and slim design.

- One cable installation for fast and easy installation
- Compact design
- IP66-rated protection
- Indoor and outdoor installations
- Sunshield for thermal insulation
- Operating conditions -20 °C to +50°C (-4°F to 122°F)
- Acrylate casing
- Compatible with: AXIS M11 Series

AXIS T95A Series Dome Housing

Protective housing for Axis dome network cameras.

- Top opening system for easy access and efficient installation
- Pre-mounted heaters, blower and power supplies
- Dome cover with superior optical clarity
- IP66-rated protection
- Indoor and outdoor installations
- Enhanced heating system
- Operating conditions down to -30 °C (-22 °F)
- Die-cast aluminum
- Compatible with: AXIS 214 PTZ, AXIS 233D

HARDWARE ACCESSORIES

Mounting accessories

Mounts for installing Axis network cameras in various locations and positions, including drop-ceiling mounts and pendant kits for poles, parapets and ceilings.

AXIS T97A10 Enclosure

Protective IP66-rated enclosure for wall-mount installation outdoors. The enclosure is suitable for AXIS Q7401 Video Encoder, AXIS P8221 Network I/O Audio Module and AXIS P7701 Video Decoder.

Casings and covers

Interchangeable casings and covers for Axis network cameras. Colored casings with clear transparent or smoked transparent bubbles. Vandal-resistant models also available.

Lenses

Axis' selection of optional lenses includes Varifocal Megapixel Lens 5-50 mm, Varifocal Lens 10-40 mm D/N, Varifocal Megapixel Lens 2.4-6 mm, Theia Fixedfocal Megapixel Lens 1.7 mm and various M12 megapixel lenses.

AXIS T90A Illuminators

White light and infrared illuminators for indoor/outdoor surveillance in low light or complete darkness. The various models offer flexibility to match the illumination angle to the Axis network camera field of view.

AXIS T90C Fixed Dome IR-LED

This infrared, vandal-resistant illuminator allows outdoor models of AXIS P33 Network Cameras to deliver high quality images even in complete darkness. The illuminator requires no maintenance, has low power consumption and an IP66- and NEMA 4X-rated casing.

Power over Ethernet

Axis products, including PTZ cameras and PTZ domes, can communicate data and receive power over a single Ethernet cable with the use of Power over Ethernet (PoE) and High PoE products.

Power accessories

A wide selection of mains adapters and extension cables for Axis network video products.

HARDWARE ACCESSORIES

AXIS T8310 Video Surveillance Control Board

Control all Axis PTZ and PTZ dome network cameras with the modular system of 3 separate joystick, keypad and jog dial units with many application defined hotkeys. Easy to install using USB interface and supports AXIS Camera Station.

AXIS P8221 Network I/O Audio Module

Provides additional I/O and audio to enhance network video surveillance systems. Features 8 configurable digital I/O ports, two-way audio and built-in pre-amplifier and phantom power for balanced microphones.

AXIS Q8108-R Network Video Recorder

Specially designed to withstand the tough onboard environments of public and commercial transportation applications. Provides uninterrupted in-vehicle recording in full frame rate HDTV resolution for up to 8 connected cameras.

YP3040 Pan-Tilt Motor

YP3040 Pan-Tilt Motor is an IP66-rated compact pan/tilt motor for use with AXIS Q1755 Network Camera and AXIS Q19 Thermal Network Camera Series.

BUNDLES AND KITS

Complete solutions and special offers

Axis offers economical purchases comprising product bundles which include several network cameras with video management software. These solutions let you get started quickly with your video application. For a full list of available bundles, please visit www.axis.com or contact your local Axis office.

+

AXIS M10 Surveillance Kits

AXIS M10 Surveillance Kit consists of four AXIS M10 Network Cameras and one AXIS Camera Station software with a 4-base license. Kits with AXIS M1011, AXIS M1031-W or AXIS M1054 Network Cameras are available.

+

AXIS M11 Surveillance Kits

AXIS M11 Surveillance Kit consists of four AXIS M11 Network Cameras and one AXIS Camera Station software with a 4-base license. Kits with AXIS M1103 or AXIS M1104 Network Cameras are available.

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AXIS M32 Surveillance Kits

AXIS M32 Surveillance Kit consists of four AXIS M32 Network Cameras and one AXIS Camera Station software with a 4-base license. Kits with AXIS M3203 or AXIS M3204 Network Cameras are available.

TECHNICAL CORNER

VIDEO STREAMING

Many Axis network video products offer users the option of more than one video compression format. The video compression standards include Motion JPEG, MPEG-4 Part 2 and H.264 (also known as MPEG-4 Part 10/AVC). H.264 is the latest compression standard that offers the most efficient format for compressing video, enabling great savings in bandwidth and storage without compromising image quality.

The Axis Media Control (AMC) includes both an MPEG-4 and an H.264 decoder, which makes viewing video streams and integration into applications easy.

Furthermore, Axis' multicasting support enables an unlimited number of viewers without sacrificing network system performance.

POWER OVER ETHERNET (PoE)

With a network video solution, you have the option of using the same Ethernet cable for video, audio and power. This makes it easier to install products since an electrician is not required and the network video product is able to operate even when there is a power failure if the PoE source is connected to a UPS.

PoE technology is regulated in standards called IEEE 802.3af/802.3at and is designed in a way that does not degrade the network performance or decrease the network reach.

The standard IEEE 802.3at provides up to 25.5 W of power, especially useful for powering units that requires more power, such as PTZ and PTZ Dome cameras.

The power delivered over the network is automatically activated when a compatible product is identified, and blocked to legacy devices that are not compatible. This feature allows users to freely and safely mix legacy and PoE-compatible devices on their network.

QUALITY OF SERVICE (QoS)

As different networks, such as telephone, data and video (CCTV) all continue to merge into a single IP network, it becomes more and more important to control the sharing of network resources, to fulfill the requirements of each service.

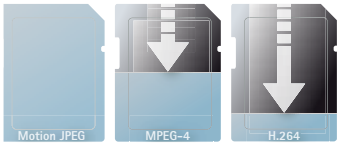
One solution is to have network equipment treat different types of services (voice, data, video) differently as the traffic passes through the network.

By using Quality of Service (QoS), network applications can co-exist on the same network, without consuming each other's bandwidth. QoS makes it possible to prioritize traffic, thus creating a more reliable network.

H.264

H.264, also known as MPEG-4 Part 10/AVC for Advanced Video Coding, is the latest MPEG standard for video encoding. H.264 takes video compression technology to a new level. An H.264 encoder can, without compromising image quality, reduce the size of a digital video file by more than 80% compared with the Motion JPEG format and as much as 50% more than with the MPEG-4 Part 2 standard. This means that much less network bandwidth and storage space are required for a video file. Or seen another way, much higher video quality can be achieved for a given bit rate.

As the H.264 format is now available in network cameras, video encoders and video management software, system designers and integrators need to make sure that the products and vendors they choose support this standard. Network video products that support both H.264 and Motion JPEG are ideal for maximum flexibility and integration possibilities.



P-IRIS

P-Iris is an automatic and precise iris control. It involves a P-Iris lens and specialized software that optimize image quality. The system is designed to address the shortcomings of an auto-iris lens by providing drastic improvements in contrast, clarity, resolution and depth of field.

In bright situations, P-Iris limits the closing of the iris to avoid blurring (diffraction) caused when the iris opening becomes too small. This can typically happen in cameras that use DC-iris lenses in combination with megapixel sensors that have small pixels. Being able to avoid diffraction and at the same time benefit from an automatically controlled iris is highly valued in outdoor video surveillance applications.

A P-Iris lens allows the position of the iris opening to be precisely controlled. In Axis network cameras with P-Iris, the iris position is automatically set to use the central and best performing part of the lens under most lighting conditions.

P-Iris is especially beneficial for megapixel/HDTV cameras and demanding video surveillance applications.

AXIS CAMERA APPLICATION PLATFORM

AXIS Camera Application Platform is an open application platform. It enables the integration of third-party applications, which can be downloaded and installed on Axis network cameras and video encoders. The platform makes it possible for integrators, resellers and end users to meet specific needs by selecting the most suitable applications for their Axis network video products.

Compatible applications can be installed on Axis network cameras and video encoders to extend their functionality to meet specific end-user needs.

For more info about AXIS Camera Application Platform and compatible applications from Axis such as AXIS Cross Line Detection, visit www.axis.com/applications.

AXIS COMMUNICATIONS
COMPATIBLE APPLICATION

MEGAPIXEL

The higher the resolution, the more details can be seen in an image. This facilitates the identification of objects and persons – important considerations in video surveillance. Megapixel resolution allows the same scene to be viewed in greater detail, or a larger scene to be viewed at a maintained resolution. The higher resolution also means that digital pan/tilt/zoom can be used without causing a drop in resolution.

After the video signal from an NTSC or PAL analog camera has been digitized, the maximum resolution will be 0.4 megapixel. New network camera technology makes higher resolutions possible.

One common megapixel format is 1280x1024, which gives 1.3-megapixel resolution, 3 times higher than analog cameras. Cameras that provide multi-megapixel resolutions are also available. It is, however, important to bear in mind that higher resolutions generally lead to reduced light sensitivity because of the smaller pixels in the image sensor as compared with conventional cameras.

The full 1600x1200 resolution provided by, for example, AXIS P1346 Network Camera gives more than 4 times the number of pixels compared with a high-resolution analog camera.

HIGH-DEFINITION TELEVISION (HDTV)

Axis HDTV network cameras comply with SMPTE (Society of Motion Picture and Television Engineers) standards with regard to HDTV resolutions and frame rates, HDTV color fidelity and a 16:9 format. The two most important HDTV standards are SMPTE 296M and SMPTE 274M.

SMPTE 296M (HDTV 720p) defines a resolution of 1280x720 pixels with high color fidelity in a 16:9 format using progressive scanning at 25/30 Hertz (Hz), which corresponds to 25 or 30 frames per second depending on the country, or at 50/60 Hz (50/60 frames per second).

SMPTE 274M (HDTV 1080) defines a resolution of 1920x1080 pixels with high color fidelity in a 16:9 format using either interlaced or progressive scanning at 25/30 Hz or 50/60 Hz.

Analog camera resolution, 4:3 ratio

HDTV/Megapixel network camera resolution, 16:9 ratio

THERMAL IMAGING

Thermal cameras detect radiation in the infrared (IR) spectrum, which is outside the range of visible light and near-infrared light. Ordinary visible light has wavelengths of 0.4-0.7 µm. This is what the human eye can see, and also what standard, non-day/night cameras can detect and display. Light at this part of the spectrum requires a radiation source, e.g. the sun or a lamp.

Near-IR light, with wavelengths of 0.7-1.5 µm, is beyond what the human eye can see, but most camera sensors can detect it and make use of it. A day/night camera uses an IR-cut filter during the day to filter out IR-light so that it does not distort the colors of images as the human eye sees them. When the camera is in night mode, the IR-cut filter is removed and the camera delivers a black and white image. Near-IR light also requires a light source, which could be a natural part of the environment, such as streetlights or moonlight, or a dedicated IR-lamp. Thermal radiation is emitted at wavelengths of 3-1000 µm.

Thermal radiation does not require a separate light source since the radiation comes from every object that has a temperature above 0 degrees Kelvin. That means that even very cold objects such as ice emit thermal radiation. The hotter the object is the more thermal radiation it emits. In other words, the greater the temperature differences in a scene, the clearer the thermal image will be.

A thermal camera requires special sensors and special optics. Regular glass cannot be used for the lenses since this blocks the thermal radiation. This also means that standard camera housings cannot be used. Most lenses for thermal cameras are made using germanium, which is transparent to IR-light and thermal radiation.

ONVIF

ONVIF is a non-profit organization founded by Axis, Bosch and Sony in 2008.

The goal of ONVIF is to facilitate the development and use of a global open standard for the interface of network video products. The ONVIF specification will ensure interoperability between network video products regardless of manufacturer. It will become even easier for end users, integrators, consultants and manufacturers to take advantage of the possibilities offered by network video, resulting in more cost-effective and flexible solutions, expanded market opportunities and reduced risk. Visit www.onvif.org for more information.

Axis was one of the first companies on the market to launch products with ONVIF support: AXIS P3301/-V Fixed Dome Network Cameras. Most of the products in the Axis portfolio now include ONVIF support.

LIGHTFINDER TECHNOLOGY

A day and night network camera can deliver excellent color images during the day. As night falls and light fades, the camera can automatically switch to night mode to make use of near infrared (IR) light to continue to deliver video. However, the images produced in low light condition are typically in black and white.

But with the Lightfinder technology Axis has mastered the art of low light video. This is the result of a careful choice of CMOS sensor with the appropriate lens, together with the elaboration of the image data coming from the combination of sensor and lens. The fusion of these factors – sensor, lens, in-house chip development and knowledge in image processing – provides the outstanding performance of this technology.

A network camera incorporating Lightfinder technology will thus offer better resolution and more lifelike colors in low-light conditions than any analog camera on the market. Furthermore, these advantages come without compromising other important features of network cameras, such as progressive scan and video intelligence analysis.

Network cameras with Lightfinder technology are the perfect solution for indoor and outdoor surveillance in low-light conditions, especially where users require color information in the video for recognition and identification purposes.

High-end surveillance camera (above) vs. Lightfinder technology (below)

EDGE STORAGE

Edge storage is a concept in Axis network cameras and video encoders that allow them to record video directly to a storage device such as an SD/SDHC card, creating more robust and flexible video surveillance systems.

Using edge storage, it is possible to record video locally when the central system is not available, or continuously record in parallel.

When used together with video management software (VMS), missing video clips resulting from, for instance, network disruptions, can later be retrieved and merged with the central storage, thereby providing uninterrupted video recordings. Additionally, edge storage can improve video analysis for systems with low network bandwidth and it can be used to manage recordings in remote locations or installations where there is intermittent or no network availability.

AXIS' CORRIDOR FORMAT

Axis' Corridor Format provides a vertically-oriented, "portrait"-shaped video stream ideal for monitoring areas that are more vertical than horizontal in shape, such as staircases, hallways, aisles, roads, runways, tunnels, and similar spaces.

In these situations, the traditional landscape format is not optimal since a large part of the field of view – specifically the edges of the image – is redundant. Consequently, the image quality is not maximized because the full area and resolution of the camera's image sensor is not utilized. And on top of providing surplus images from areas that do not require monitoring, bandwidth and storage is also wasted.

By adapting perfectly to the monitored area, Axis' Corridor Format can maximize image quality while eliminating bandwidth and storage waste. The resulting image will have a 9:16 aspect ratio, which makes it a perfect match with modern HDTV network cameras that deliver a 16:9 aspect ratio.

PREPARING YOUR NETWORK VIDEO PROJECT

Main considerations

1. Define the scene and type of network video products required

> **Scene: What kind of scene do you want to monitor? How important is it?**
This will help you determine the features you would like to have in a network camera, such as video quality, light sensitivity and type of lens.

> **Lighting conditions: level of indoor and/or outdoor light sensitivity required.**
Axis offers network cameras for indoor use, as well as models for both indoor/outdoor conditions. Indoor/outdoor cameras have varifocal lens that automatically adjust the lens' iris. Day/night cameras, which provide color images during daytime and black and white images during nighttime are also available.
Check details on the network camera's light sensitivity both in indoor and/or outdoor environments. Lighting conditions are measured in "lux".

> **Distance from position of camera to object being monitored.**
This determines the type of camera and type of lens (normal, telephoto, wide-angle) to use, as well as the placement of the camera(s). Choose Axis network cameras with fixed focal or varifocal lenses, with or without replaceable lenses, according to the level of flexibility needed.

> **Angle of view needed: wide, narrow, general or detailed coverage** (Determine how much of the scene you need to see)**.**
Network cameras come with fixed angle and focus, as well as variable ones that allow remote pan/tilt/zoom capability, which enables a wider area of coverage.

> **High or low traffic.**
The higher the traffic, the more cameras may be needed.

2. Determine your application needs: features, recording and storage needs

> **Application:** Simple remote viewing, intelligent surveillance system with advanced event management, input/output triggers, audio?

> **Viewing and recording needs:** Determine when and how often you need to view and record: day, night and/or weekends? Schedule the needs for every scene.

> **Calculate** storage requirements.

> **Calculate** bandwidth requirements.

3. Determine your network needs (LAN/WAN, wireless)

> Assess network use of current LAN: what are you or the company using it for?

> Assess network use of current WAN links.

> Determine the pattern of congestion levels over a given period.

> Do you need to add new equipment to the network, e.g. switches, or use existing infrastructure and equipment?

> Do you need to subscribe to additional ISPs for redundancy?

TOOLS AND RESOURCES

Axis offers a variety of tools and information resources to help design IP surveillance systems. Many are accessible from the Axis website: www.axis.com/tools

Axis Product Selector

This tool helps you find and compare products from the Axis product portfolio. You specify product type, product category and needed functions and will be presented all available products meeting your selection criteria.

Axis Accessory Selector Tool

This tool helps you find the right accessories such as brackets, housings, power supplies and cables for your specific camera application.

AXIS Design Tool

This tool helps you estimate bandwidth and storage needs for your surveillance project based on camera configurations and surveillance scenarios.

Axis Coverage Shapes

An easy-to-use library of camera shapes for Microsoft Visio that lets you visualize camera coverage based on camera field of view and required resolution. Axis Coverage Shapes are available to Axis' partners on the Partner Pages: www.axis.com/partner_pages

Lens calculators

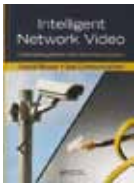
This tool helps you calculate the focal length of the lens you will need in order to capture a specific scene at a certain distance.

AXIS Guide

The AXIS Guide is a version of the Axis product selector, specially designed for use on iPhone.

Technical guide to network video

Before setting up your own system, you need to consider what features are required. It is equally important to consider factors such as performance, interoperability, scalability, flexibility and future-proof functionality. This guide will walk you through these factors, helping you to achieve a solution that fully takes advantage of the potential of network video technology. To order a free personal copy, visit www.axis.com/free_guide



Intelligent Network Video: Understanding modern surveillance systems

This 390-page hardcover book is authored by Fredrik Nilsson and Axis Communications. It represents the first resource to provide detailed coverage of advanced digital networking and intelligent video capabilities. Published in September 2008, the book is available for purchase through Amazon, Barnes & Noble and CRC Press, or contact your local Axis office.

SOLUTIONS BY INDUSTRY

A tailor-made solution for every application

Flexibility and scalability are key promises that network video fulfills. Axis offers network video solutions that ensure enduring results, whatever your business area or application need.

Retail

The key to success for retailers is to provide a satisfying customer experience. With Axis network video, you can achieve greater security and loss prevention, optimize store management and significantly improve store performance. Easily integrated with POS and EAS systems, an Axis network video solution enables remote and local monitoring at any time, from any place. You get rapid ROI as well as great interoperability; for instance, by combining people counting, integrated alarm functionality and register monitoring.

Transportation

Axis network video gives you the means to improve safety, control flow and enhance overall security at airports and public transport hubs, and even on-board vehicles. Remote surveillance lets you monitor everything: check-in, platforms, gates, hangars, parking lots and baggage systems, as well as vehicles in service. For traffic monitoring, network video helps to reduce congestion and improve traffic flow.

Education

From day-care centers to universities, Axis network video systems help deter vandalism and increase safety for staff and students. Using the existing IP infrastructure, no extra cabling is required. Features such as motion detection give security operators powerful tools to support action and avoid false alarms. Remote learning is another interesting application, e.g. for students who are unable to attend lectures in person.

Industrial

Axis network video is used in a multitude of industrial applications, such as remote monitoring of manufacturing lines and processes, performance enhancement of automated production systems, incident detection and perimeter security. Network video is also an efficient tool to improve remote trouble-shooting and maintenance support.

City surveillance

Network video is an essential tool for fighting crime and protecting the public. In emergencies, network cameras can help police or firefighters to quickly focus their action. Axis' advanced network cameras offer razor-sharp detail, motion detection and tamper-resistance. Operating over both wired and wireless networks, they are ideal and extremely cost-effective tools to promote the security that ensures safer cities.

Government

Axis network video helps protect all kinds of public buildings, from museums and offices to libraries and prisons. Supervising security at building access areas and remote monitoring points 24/7, Axis cameras increase security for staff and visitors. They also help prevent vandalism and provide visitor statistics.

Healthcare

Axis allows hospitals to efficiently monitor indoor and outdoor environments such as emergency departments, passageways and restricted areas to ensure the protection of staff, patients and sensitive information. Authorized hospital security staff can view live video from multiple locations, detect activity, provide remote assistance, and much more.

Banking and finance

Banks have traditionally very high demands on security and surveillance. Using existing CCTV equipment and infrastructure, they can create state-of-the-art network video surveillance systems that deliver powerful event management and exceptional image detail for easy detection and identification in all light situations. At bank offices as well as ATMs, Axis solutions increase the security for staff and visitors and offer greater protection of assets and property. Security staff can monitor multiple branches from a central or mobile location, and rapidly verify and respond to alarms.

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About Axis Communications

Axis is an IT company offering network video solutions for professional installations. The company is the global market leader in network video, driving the ongoing shift from analog to digital video surveillance. Axis products and solutions focus on security surveillance and remote monitoring, and are based on innovative, open technology platforms.

Axis is a Swedish-based company, operating worldwide with offices in more than 20 countries and cooperating with partners in more than 70 countries. Founded in 1984, Axis is listed on the NASDAQ OMX Stockholm under the ticker AXIS. For more information about Axis, please visit our website at www.axis.com.

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